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BUILD VARIETY OF NEW MACHINE TOOLS

DEVELOP NEW LATHES -- Leningradskaya Pravda, 8 Jan 52

Designers of the Moscow Krasnyy Proletariy Plant have developed a new high-duty lathe intended for high-speed machining of metals. The blueprints for this machine tool were given to the shops on 7 January.

A series of vertical lathes for various branches of the national economy are being planned in the Design Bureau. Several days ago, work on a new eight-spindle lathe was completed here.

Plant specialists have made a significant contribution to construction technique. They have designed an automatic line on which the framework of reinforced-concrete columns will be machined. This unique line will ease the labor of construction workers a great deal.

Plant designers have decided to modernize a number of multicutter machine tools, and to develop a group of powerful combination machine tools for high-speed machining. The Krasnoproletarians are continuing their work on the development of especially precise machine tools.

Kiev, Pravda Ukrainy, 9 Jan 52

The eight-spindle lathe [mentioned above] can be used for machining large automobile and tractor parts.

MANUFACTURE NEW MULTISPINDLE AUTOMATIC -- Moscow, Trud, 6 Jan 51

The Kiev Machine-Tool Building Plant imeni Gor'kiy has manufactured a new multispindle automatic on which various types of parts up to 100 millimeters in diameter can be machined. All processes are automatic.

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The machine tool has been tested with good results. Plant personnel have pledged to master the mass production of the automatic machine tools in a short period.

DESIGN NEW PLANING MACHINES -- Kiev, Pravda Ukrainy, 9 Jan 52

Manusevich and Plashey, designers at the Minsk Machine-Tool Building Plant imeni Voroshilov have completed work on a new planing machine. Manufacture of the first parts for this machine was started in the machinery shop, foundry, and pattern shop on 8 January.

At present, plant engineers are completing work on the design of an edge-planing machine.

PUT OUT FIRST 1952 MODELS -- Vil'nyus, Sovetskaya Litva, 11 Jan 52

The Vil'nyus Zhal'giris Machine-Tool Building Plant has released its first 1952 models of machine tools.

BUILDS FIRST MODEL OF DUPLICATING-MILLING MACHINE -- Kiev, Pravda Ukrainy, 2 Dec 51

The Odessa Plant imeni S. M. Kirov has manufactured the first model of a three-dimensional (ob'yemnyy) semiautomatic duplicating-milling machine of original design. It greatly excels US electric and hydraulic machines. The aggregate machines curved surfaces of complex parts such as dies, pres. molds, and patterns with a high degree of accuracy. A signal light indicates completion of operation, thus permitting one operator to attend five such machine tools.

PUT OUT NEW HIGH-PRECISION MACHINE TOOLS -- Moscow, Moskovskaya Pravda, 5 Jan 52

The Leningrad Machine-Tool Building Plant imeni Il'ich has produced the first group of exceptionally precise machine tools for the manufacture of irregularly-shaped templets, cutters of complex profile, and other parts.

The new machine tools are equipped with an optical device by means of which the image of the part being machined is magnified 50 times and projected on a special screen. A part can now be machined to an accuracy of one hundredth of a millimeter.

The operation of all units is automatic.

PRODUCE FIRST GROUP OF NEW TYPE MACHINE TOOLS -- Moscow, Trud, 5 Jan 52

The Yerevan Machine-Tool Building Plant imeni Dzerzhinskiy has produced the first group of type 1615-"p" machine tools. They differ from previous models by their high degree of precision in machining small parts at high speeds.

In mastering the production of the new product, the Yerevan Plant received a great deal of assitance from engineers and Stakhanovites of the Moscow Krasnyy Proletariy and the Kuybyshev Machine-Tool Building Plants.

Yerevan, Kommunist, 10 Jan 52

At the Yerevan Machine-Tool Building Plant imeni Dzerzhinskiy, more th 31 percent of the machine tools are consistently without load. A significant portion of them are idle because of delay and poor repair.

For a long time, 46 machine tools have not been in operation, and a part of them have not even been installed.

CITE 1951 ACCOMPLISHMENT, SHORTCOMINGS -- Tbilisi, Zarya Vostoka, 9 Jan 52

The Tbilisi Machine-Tool Building Plant imeni S. M. Kirov completed the 1951 plan on 27 December.

New pipe-cutting and sleeve-cutting machines manufactured by the plant have shown exceptional operating qualities at a number of metallurgical plants.

Previously, such complex machine tools were not designed at the plant. Now, semiautomatics and automatics, fully answering the specifications of the Ministry of Machine-Tool Building USSR, are being designed successfully.

L. Kulikov, chief designer; Yu. Fal'kovich, G. Bendukidze, P. Abesadze, V. Bobro, and other designers participated actively in the development of the new designs and their perfection.

In 1951, the plant perfected 16 models of new special machine tools.

Design changes were made in the series-produced Model 1D63A universal screw-cutting lathe, which improved its operating qualities and durability.

The conversion of the production of the 1D63A lathe to constant-flow methods enabled the plant in 1951 to realize the planned capacity of output of machine tools and to complete the increased year'plan.

In 1952, the plant is faced with bigger tasks. The output of products must increase 25 percent as compared with 1951. Seven new models of machine tools must be perfected, which will reduce labor consumption 10-15 percent. The assignment for training personnel is 1½ times greater.

All these tasks can be fulfilled if the plant will eliminate its 1951 shortcomings.

One serious shortcoming is the poor external finish (paint) of machine tools, which is considerably inferi to the finish of machine tools produced by the Moscow Krasnyy Proletariy Plant. Another shortcoming is the poor quality of assembly of separate units such as the speed and feed boxes and aprons. There is a large percentage of rejects at the plant. In 1951, the plant suffered a loss of 454,000 rubles as a result of rejects.

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